

**PATENT COOPERATION TREATY**  
**PCT**  
**INTERNATIONAL PRELIMINARY EXAMINATION REPORT**  
(PCT Article 36 and Rule 70)

|  |  |  |
|--|--|--|
| Applicant's or agent's file reference<br>E-1719/03   | <b>FOR FURTHER ACTION</b>                                | See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA416) |
| International application No.<br>PCT/IT 03/00371   | International filing date (day/month/year)<br>13.06.2003 | Priority date (day/month/year)<br>14.06.2002   |
| International Patent Classification (IPC) or both national classification and IPC<br>E05B65/12 |  |  |
| Applicant<br>INTIER AUTOMOTIVE CLOSURES S.P.A.   |  |  |

|  |
|--|
| <p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of 7 sheets.</p>   |
| <p>3. This report contains indications relating to the following items:</p> <ul style="list-style-type: none"> <li>I <input checked="" type="checkbox"/> Basis of the opinion</li> <li>II <input type="checkbox"/> Priority</li> <li>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</li> <li>IV <input type="checkbox"/> Lack of unity of invention</li> <li>V <input checked="" type="checkbox"/> Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</li> <li>VI <input type="checkbox"/> Certain documents cited</li> <li>VII <input type="checkbox"/> Certain defects in the international application</li> <li>VIII <input type="checkbox"/> Certain observations on the international application</li> </ul> |

|  |  |
|--|--|
| Date of submission of the demand<br>09.01.2004   | Date of completion of this report<br>02.11.2004                  |
| Name and mailing address of the international preliminary examining authority:<br><br>European Patent Office - P.B. 5818 Patentlaan 2<br>NL-2280 HV Rijswijk - Pays Bas<br>Tel. +31 70 340 - 2040 Tx: 31 651 epo nl<br>Fax: +31 70 340 - 3016 | Authorized Officer<br>Westin, K<br>Telephone No. +31 70 340-2635 |



**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. PCT/IT 03/00371

## I. Basis of the report

1. With regard to the elements of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

**Description, Pages**

1, 2, 4-40 as originally filed  
3 received on 20.09.2004 with letter of 15.09.2004

## Claims, Numbers

1-14 received on 20.09.2004 with letter of 15.09.2004

## Drawings, Sheets

18-88 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- the language of publication of the international application (under Rule 48.3(b)).
- the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- contained in the international application in written form.
- filed together with the international application in computer readable form.
- furnished subsequently to this Authority in written form.
- furnished subsequently to this Authority in computer readable form.
- The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- the description, pages:
- the claims, Nos.:
- the drawings, sheets:

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. PCT/IT 03/00371

5.  This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

|                               |             |      |
|-------------------------------|-------------|------|
| Novelty (N)                   | Yes: Claims | 1-14 |
|                               | No: Claims  |      |
| Inventive step (IS)           | Yes: Claims |      |
|                               | No: Claims  | 1-14 |
| Industrial applicability (IA) | Yes: Claims | 1-14 |
|                               | No: Claims  |      |

2. Citations and explanations

**see separate sheet**

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/IT 03/00371

**Re Item V**

**Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

2.1 Reference is made to the following documents:

D1: US 5 855 130 A,  
D2: US 5 746 076 A,  
D3: US 2001/356654 A.

2.2 The general aim of achieving a large number of lock functions with a single general lock construction described in the present application (p.2, §2 - p.3, §1) is also addressed in D3, §[0005].

2.3 Document D3 discloses a lock for a door of a motor vehicle comprising: - a closing mechanism 38,50 designed for coupling, in a releasable way, with a lock striker for bringing about closing of said door; - a mechanical actuating assembly of said closing mechanism, which comprises opening means 24,26 for controlling release of said closing mechanism from said lock striker (§[0056], §[0058]). There are furthermore means for inhibiting opening 76, that can be selectively activated for rendering said opening means ineffective (§[0070]-§[0073]) and electrical actuator means comprising two output members 172,194 interacting with said means for inhibiting opening (col.5, l.39-43). Furthermore, said electrical actuator means 10 are housed in a single casing 118) and said output members 172,196 traverse a through hole of said casing for cooperating with said means for inhibiting opening 76. The casing defines an area for housing a manual control device (see e.g. figure 7 and §[0062], §[0063]). Finally there is an additional electrical control device of the second output member, which provides a function of child safety locking (§[0091], §[0092]).

2.4 One of the features in claim 1 describes that the electric-actuator means are housed in a fluid-tight way in the casing and in that the output-members are traversing respective through holes in a fluid-tight way. In D1 a fluid-tight construction of the casing 118 does not appear to be explicitly mentioned. However, in D1 there are a number of implicit indications in the direction of a more or less sealed construction of the casing. From the figures (see e.g. figs. 3, 5, 7, 15, 17, 19) it seems highly probable that the two casing halves 120, 122 define a sealed housing with the electrical connector 138, the connection for a manual release device 124, and the output members 172,194 as the only entries/exits. It is thereby to be mentioned that the arrangement as for example in figure 8, where there appears to be an open space

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

---

International application No. PCT/IT 03/00371

between shaft 170 and casing 120, is due to the simplified structure where the second output shaft 192 has been omitted from the drawing. In reality the space between 170 and 120 would be filled by the second shaft 190.

2.5 Even if it would be argued that the construction in D3 is not to be seen as fluid-tight, it would be immediately obvious to provide the necessary sealing arrangements to the actuator casing 118 in order to achieve fluid-tightness.

2.6 The remaining feature of claim 1 distinguishing its subject-matter from an actuator according to D3 is that the output members traverse the casing in different through holes (claim 1, p.2, l.3, "further through hole").

2.7 The subject-matter of claim 1 is thus new (Article 33(2) PCT).

2.8 In D1 the output members are arranged in a coaxial manner. To replace this arrangement by output members exiting the casing in separate through holes appears to be a mere design option, especially since the present application does not seem to specify any clear, non-obvious advantages of this particular feature. It is also to be noted that this feature has no functional relationship with the fluid-tightness of the casing. It concerns two juxtaposed, non-related, features (see Guidelines 13.05).

2.9 Starting from a lock according to D3 the skilled person would consequently arrive at a lock according to claim 1 without inventive activity (Article 33(3) PCT).

2.10 The subject-matter of dependent claims 2-14 appears to be rendered obvious by the disclosures in documents D1-D2 and/or the general knowledge of the person skilled in the vehicle lock field.